




# Ben Zhao

 in/wenbinzhao  
 wenbinzhao.com  
 ben@wenbinzhao.com  
 306-737-2773

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## TECHNOLOGIES

- C, C++, C#
- SQL
- AngularJS
- Less, Sass
- Node.JS
- MongoDB
- ReactJS
- Gulp
- Java, Scala
- JavaScript
- TypeScript
- Linux

## EDUCATION

### University of Waterloo

*September 2016–Present*

Candidate for Honours Bachelor of  
**Computer Science**, Co-op (3A)

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## EXPERIENCE

### Imagine Communications—Full Stack Developer

*September 2017–December 2017*

- Refactored code to be asynchronous using JavaScript promises and increase UI responsiveness by bypassing unnecessary server calls.
- Implemented UI features specified by designers and POCs to secure a major client.
- Developed reusable Angular components by applying modular design principles to accelerate UI development and enforce a uniform style.
- Automated stylesheet generation for icons using node.JS to enable exporting icon sets as reusable NPM packages.
- Developed back-end services to handle and optimize data transfer using C#.

### Acronym Software—C++ Developer

*May 2018–August 2018*

- Added a new class of calculations for civil engineering and design.
- Designed new data structures extending existing ones to store essential data for new calculations.
- Increased efficiency and readability by reorganizing code to be more modular and reusable.
- Modified complex calculations to integrate new features into upcoming software release.
- Debugged, tested, and shipped beta versions of software to client to demonstrate new functionalities and receive feedback for further improvement.

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## PROJECTS

### HangmanBot AI

*September 2017*

- Created a hangman game using AngularJS and a NoSQL database which logs data from each game.
- Developed an algorithm to determine the most likely letter to appear based on word length, letter frequency, and previous game data.
- Bot undefeatable with greater-than-3 letter words after populating database with 20K words.

### Robotics Team

*September 2016*

- Designed a robot using Arduino and CAD in collaboration with a team of young engineers.
- Implemented algorithms to make robot follow a strip which encodes audio, then play the audio encoded.
- Won award for best chassis through excellent use of CAD and plasma cutting technology.